

PATENT ABSTRACTS OF JAPAN

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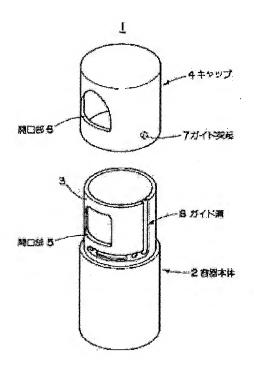
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(54) PORTABLE VESSEL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a portable vessel that can secure a cap to a close position or a open position surely without damaging the open and close operability of the cap.

SOLUTION: A guide projection 7 and a guide groove 8 are provided respectively on the inner circumferential surface of a cap 4 and the outer circumferential surface of the small diameter part 3 of a vessel main body, and the guide groove 8 provided with a close part for holding the cap 4 at the close position, an open and close slide part for allowing the cap to move to the close position and open position, an open state retaining part for permitting the cap to be retained at the open position, and an extracting part for pulling out the cap 4 from the vessel main body 2.



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CLAIMS

[Claim(s)]

[Claim 1]While providing an opening opened and closed by laminating a tubed cap with an end slidable to shaft orientations pivotable to said opening side of a cylinder-like-object-with-base-like package body which carried out the opening, and making a peripheral surface of a cap and a package body rotate a cap, respectively, To either of inner skin of a cap, and a package body

peripheral face in slide contact with this inner skin, a guide projection, A stoppage part which provides a guide groove which this guide projection engages for which and slides to another side, respectively, and holds said cap to said guide groove in a closing place, A portable container providing an opening-and-closing slide part which makes it rotate between opening positions where a closing place and said opening carry out the opening of the cap, an opening attaching part which holds a cap to an opening position, and a sampling part of a direction which samples a cap from a package body.

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DETAILED DESCRIPTION

[Detailed Description of the Invention] [0001]

[Field of the Invention] This invention relates to the portable container of structure suitable for using as a portable ashtray etc. in detail about a portable container.
[0002]

[Description of the Prior Art]What laminated from the former the cap which provided the opening in the side as portable containers, such as a portable ashtray, on the package body which consists of a cylinder-like-object-with-base object so that a slide was possible is used. As for such a portable container, for example, a gestalt ash pan, when moving a cap to the position in which said opening carries out an opening when throwing away ashes and a cigarette end into a container and throwing away the cigarette end in a container, etc. outside, it is common to demount a cap and to perform it from a container.

[0003]

[Problem(s) to be Solved by the Invention] However, since there is almost no function which locks a cap in a closing place or an opening position in the conventional portable container, While putting in and carrying in the pocket etc., the cap moved carelessly, the opening might open, it might change into the state where it is half—open while opening and using the opening, and the cap might separate from the package body.

[0004] Then, an object of this invention is to provide the portable container which can certainly fix a cap to a closing place or an opening position, without spoiling the switching operation nature of a cap.

[0005]

[Means for Solving the Problem] This invention is characterized by a portable container comprising the following to achieve the above objects.

While providing an opening opened and closed by laminating a tubed cap with an end slidable to shaft orientations pivotable to said opening side of a cylinder-like-object-with-base-like package body which carried out the opening, and making a peripheral surface of a cap and a package body rotate a cap, respectively, it is the inner skin of a cap.

A stoppage part which provides a guide groove which this guide projection engages with either of the package body peripheral faces in slide contact with this inner skin, and slides a guide JC / 1111 049010

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projection to the other at it, respectively, and holds said cap to a closing place in said guide groove.

An opening-and-closing slide part which makes it rotate between opening positions where a closing place and said opening carry out the opening of the cap.

An opening attaching part which holds a cap to an opening position, and a sampling part of a direction which samples a cap from a package body.

[0006]

[Embodiment of the Invention] The perspective view of the portable container of a closing state and <u>drawing 3</u> of the exploded perspective view and <u>drawing 2</u> which <u>drawing 1</u> shows the example of 1 gestalt of the portable container of this invention are the development views of a guide groove.

[0007] This portable container 1 is formed by the package body 2 which consists of a closed-end cylinder body, and the cap 4 laminated on the narrow diameter portion 3 established in the opening side of this package body 2. Form the cap 4 in the peripheral surface of a closed-end cylinder body, and the opening 5 provided in said narrow diameter portion 3, and the same-shaped opening 6 the inside diameter, It is the same in the outer diameter of said narrow diameter portion 3, and abbreviation, and the cap 4 is formed so that it may be in a pivotable and state slidable to shaft orientations to said narrow diameter portion 3.

[0008]A tip is established for the guide projection 7 of a surface of a sphere in the package body side inner skin of the cap 4, and the guide groove 8 which said guide projection 7 engages for which and slides is established in the peripheral face of the narrow diameter portion 3. [0009]the stoppage part 10 corresponding to the position of said guide projection [in / as said guide groove 8 is developed and shown in drawing 3 / the closing place of the cap 4] 7, and the opening—and—closing slide part 11 which makes it move between the opening positions which a closing place and said openings 5 and 6 agree, and carry out the opening of the cap 4 — and, It is formed of the slot of the container hoop direction which consists of the opening attaching part 12 held in the position to which the opening carried out the opening of the cap 4, and the sampling part 13 of the container axial direction for sampling the cap 4 from the package body 2.

[0010]The portions 11a and 11b of the both sides of the opening-and-closing slide part 11 linked to said stoppage part 10 or the opening attaching part 12, and the portion 14 between the opening attaching part 12 and the sampling part 13, A slot shallower than the channel depth of a center section, the opening attaching part 12 of the stoppage part 10 and the opening-and-closing slide part 11, and the sampling part 13, Or width is formed in the narrow slot, when passing these portions 11a, 11b, and 14, it ****s on the tip fang furrow bottom of the guide projection 7, and it is formed so that moderate resistance may occur in rotation of the cap 4. [0011]Therefore, when rotating the cap 4 in the state where the package body 2 was equipped with the portable container shown in this example of a gestalt and opening and closing the openings 5 and 6, Since it will pass while the guide projection 7 of the cap 4 receives a sliding resistance in the vadum portions 11a and 11b of the both sides of the opening-and-closing slide part 11, and it will engage with the stoppage part 10 or the opening attaching part 12, When the guide projection 7 engages with the stoppage part 10 or the opening attaching part 12, a click feeling occurs, and it can know certainly that the cap 4 rotated to the closing place or the opening position.

[0012] And while the cap 4 is rotating to the closing place or the opening position. In order to engage the guide projection 7 with the stoppage part 10 or the opening attaching part 12 and for the cap 4 to rotate from this position, Since the power which exceeds the resistance produced in the vadum portions 11a, 11b, and 14 is required, it is lost that the cap 4 opens during carrying, become half—open while in use, or the cap 4 separates from the package body 2.

[0013] When demounting the cap 4 from the package body 2, it can sample easily [shaft orientations] by rotating the cap 4 of an opening position further and making the guide projection 7 engage with the sampling part 13.

[0014]What provided the projection in the inner skin of the cap 4 may be used for the guide

projection 7, and it could make the peripheral wall hammer out and project to the inner circumference side. May also form the guide groove 8 as a slot at the time of shaping, it is made to change a peripheral wall after shaping, it may be made to form a slot, and a part is pierced, it is good also as slit shape and the slot of said portions 11a, 11b, and 14 may be omitted. [0015]A guide projection can be provided in the peripheral face of the narrow diameter portion 3 of the package body 2, and a guide groove can also be established in the inner skin of the cap 4. In this case, the guide groove can perform opening and closing and the lock of the cap 4 by said same operation by considering it as the shape which made reverse the top and bottom of the guide groove 8 of drawing 3 by carrying out the guide projection of the narrow diameter portion 3 the narrow diameter portion tip side.

[0016]If a package body and a cap usually use the outside surface of said narrow diameter portion 3, and the inner surface of the cap 4 as a cylindrical shape, can form the outside surface shape of a container in arbitrary shape, such as polygonal shape, but. Movement of the above caps 4 is possible for it, and the shape of the outside surface of the narrow diameter portion 3 and the inner surface of the cap 4 can maintain the engagement state of the guide projection 7 and the guide groove 8, and it can also make this portion into polygonal shape. The narrow diameter portion 3 does not need to be a perfect barrel, and a semi-cylindrical shape may be sufficient as it. It turns one and may be made to put a big cap on the package body 2, without forming the narrow diameter portion 3 of the package body 2.

[0017] Although the construction material of a package body or a cap is arbitrary and metal, heat-resistant synthetic resins, etc., such as aluminum, can be used, After carrying out spinning of the laminate sheet which covered layers, such as a crystalline thermoplastic resin layer, for example, 6-nylon etc., on one side of the aluminum plate so that a crystalline thermoplastic resin layer may become outside. By using what heat-treated, printing to an outside surface can be performed easily, and corrosion resistance and shock resistance are also good and, moreover, can be manufactured by low cost.

[0018]

[Effect of the Invention] As explained above, since a cap is certainly fixable to a closing place or an opening position according to the portable container of this invention, it is lost that a cap opens during carrying, become half-open while in use, or a cap separates from a package body.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

<u>[Drawing 1]</u>It is an exploded perspective view showing the example of 1 gestalt of the portable container of this invention.

[Drawing 2] It is a perspective view of the portable container of a closing state.

[Drawing 3]It is a development view of a guide groove.

[Description of Notations]

1 [-- A cap, 5, 6 / -- An opening, 7 / -- A guide projection, 8 / -- A guide groove, 10 / -- A

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stoppage part, 11 / -- An opening-and-closing slide part, 12 / -- An opening attaching part, 13 / -- Sampling part] -- A portable container, 2 -- A package body, 3 -- A narrow diameter portion, 4

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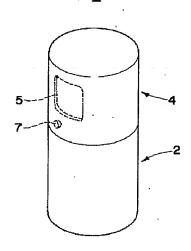
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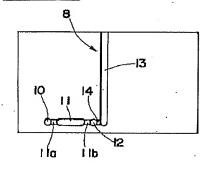
DRAWINGS

[Drawing 2]

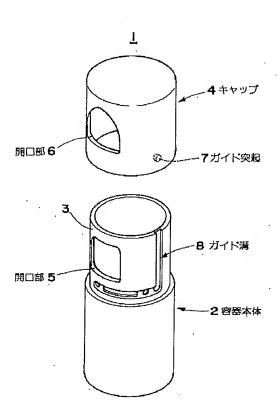
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[Drawing 3]



[Drawing 1]



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